==========

Sequence Listing could not be accepted due to errors.
See attached Validation Report.
If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).
Reviewer: Keisha Douglas
Timestamp: [year=2010; month=11; day=3; hr=10; min=53; sec=1; ms=998; ]

==========

**********

Reviewer Comments:

<210> 1

<211> 7

<212> PRT

<213> Gymnea sylvestre

<400> 1

Asn Gly Ser Phe Ser Gly Phe

1 5

The above sequence id# 1 is invalid, please delete spacing betweeen the amino acids and the numbering. This error is seen globally throughout the sequences.

**********

**Validated By CRFValidator v 1.0.3**

Application No: 10579655 Version No: 4.0

**Input Set:**

**Output Set:**

**Started:** 2010-10-25 19:40:21.780
**Finished:** 2010-10-25 19:40:36.460
**Elapsed:** 0 hr(s) 0 min(s) 14 sec(s) 680 ms
**Total Warnings:** 379
**Total Errors:** 2984
**No. of SeqIDs Defined:** 415
**Actual SeqID Count:** 415

| Error code | | Error Description |
|---|---|---|
| W | 402 | Undefined organism found in <213> in SEQ ID (1) |
| E | 355 | Empty lines found between the amino acid numbering and the |
| E | 321 | No. of Bases conflict, this line has no nucleotides SEQID (1) |
| W | 402 | Undefined organism found in <213> in SEQ ID (2) |
| E | 355 | Empty lines found between the amino acid numbering and the |
| E | 321 | No. of Bases conflict, this line has no nucleotides SEQID (2) |
| W | 402 | Undefined organism found in <213> in SEQ ID (3) |
| E | 355 | Empty lines found between the amino acid numbering and the |
| E | 321 | No. of Bases conflict, this line has no nucleotides SEQID (3) |
| W | 402 | Undefined organism found in <213> in SEQ ID (4) |
| E | 355 | Empty lines found between the amino acid numbering and the |
| E | 321 | No. of Bases conflict, this line has no nucleotides SEQID (4) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (5) |
| E | 355 | Empty lines found between the amino acid numbering and the |
| E | 321 | No. of Bases conflict, this line has no nucleotides SEQID (5) |
| E | 355 | Empty lines found between the amino acid numbering and the |
| E | 321 | No. of Bases conflict, this line has no nucleotides SEQID (5) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (6) |
| E | 355 | Empty lines found between the amino acid numbering and the |
| E | 321 | No. of Bases conflict, this line has no nucleotides SEQID (6) |

**Input Set:**

**Output Set:**

**Started:** 2010-10-25 19:40:21.780
**Finished:** 2010-10-25 19:40:36.460
**Elapsed:** 0 hr(s) 0 min(s) 14 sec(s) 680 ms
**Total Warnings:** 379
**Total Errors:** 2984
**No. of SeqIDs Defined:** 415
**Actual SeqID Count:** 415

| Error code | Error Description |
|---|---|
| E 355 | Empty lines found between the amino acid numbering and the |
| E 321 | No. of Bases conflict, this line has no nucleotides SEQID (6) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (7) |
| E 355 | Empty lines found between the amino acid numbering and the |
| E 321 | No. of Bases conflict, this line has no nucleotides SEQID (7) |
| E 355 | Empty lines found between the amino acid numbering and the |
| E 321 | No. of Bases conflict, this line has no nucleotides SEQID (7) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (8) |
| E 355 | Empty lines found between the amino acid numbering and the |
| E 321 | No. of Bases conflict, this line has no nucleotides SEQID (8) |
| E 355 | Empty lines found between the amino acid numbering and the |
| E 321 | No. of Bases conflict, this line has no nucleotides SEQID (8) |
| W 402 | Undefined organism found in <213> in SEQ ID (9) |
| E 355 | Empty lines found between the amino acid numbering and the |
| E 321 | No. of Bases conflict, this line has no nucleotides SEQID (9) |
| E 355 | Empty lines found between the amino acid numbering and the |
| E 321 | No. of Bases conflict, this line has no nucleotides SEQID (9) |
| W 402 | Undefined organism found in <213> in SEQ ID (10) |
| E 355 | Empty lines found between the amino acid numbering and the |
| E 321 | No. of Bases conflict, this line has no nucleotides SEQID (10) |
| E 355 | Empty lines found between the amino acid numbering and the |
| E 321 | No. of Bases conflict, this line has no nucleotides SEQID (10) |

**Input Set:**

**Output Set:**

**Started:** 2010-10-25 19:40:21.780
**Finished:** 2010-10-25 19:40:36.460
**Elapsed:** 0 hr(s) 0 min(s) 14 sec(s) 680 ms
**Total Warnings:** 379
**Total Errors:** 2984
**No. of SeqIDs Defined:** 415
**Actual SeqID Count:** 415

| Error code | | Error Description |
|---|---|---|
| W | 402 | Undefined organism found in <213> in SEQ ID (11) |
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| E | 321 | No. of Bases conflict, this line has no nucleotides SEQID (11) |
| E | 355 | Empty lines found between the amino acid numbering and the |
| E | 321 | No. of Bases conflict, this line has no nucleotides SEQID (11) |
| E | 355 | Empty lines found between the amino acid numbering and the |
| E | 321 | No. of Bases conflict, this line has no nucleotides SEQID (11) |
| W | 402 | Undefined organism found in <213> in SEQ ID (12) |
| E | 355 | Empty lines found between the amino acid numbering and the proteins |
| E | 321 | No. of Bases conflict, this line has no nucleotides SEQID (12) POS (0) |
| W | 402 | Undefined organism found in <213> in SEQ ID (13) |
| W | 402 | Undefined organism found in <213> in SEQ ID (14) |
| W | 402 | Undefined organism found in <213> in SEQ ID (15) |
| W | 402 | Undefined organism found in <213> in SEQ ID (16) |
| W | 402 | Undefined organism found in <213> in SEQ ID (17) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (18) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (19) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (20) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (21) |
| W | 213 | Artificial or Unknown found in <213> in SEQ ID (22) |
| W | 402 | Undefined organism found in <213> in SEQ ID (23) |

**Input Set:**

**Output Set:**

**Started:** 2010-10-25 19:40:21.780
**Finished:** 2010-10-25 19:40:36.460
**Elapsed:** 0 hr(s) 0 min(s) 14 sec(s) 680 ms
**Total Warnings:** 379
**Total Errors:** 2984
**No. of SeqIDs Defined:** 415
**Actual SeqID Count:** 415

| Error code | Error Description |
|---|---|
| W 402 | Undefined organism found in <213> in SEQ ID (24) |
| W 402 | Undefined organism found in <213> in SEQ ID (25) |
| W 402 | Undefined organism found in <213> in SEQ ID (26) |
| W 402 | Undefined organism found in <213> in SEQ ID (28) |
| W 402 | Undefined organism found in <213> in SEQ ID (29) |
| W 402 | Undefined organism found in <213> in SEQ ID (30) |
| | This error has occured more than 20 times, will not be displayed |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (77) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (78) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (79) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (80) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (253) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (254) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (255) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (256) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (257) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (258) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (259) |
| | This error has occured more than 20 times, will not be displayed |

SEQUENCE LISTING

<110> Sanofi Pasteur, Inc.

<120> METHODS FOR PURIFYING PERTUSSIS TOXIN AND PEPTIDES USEFUL THEREFOR

<130> API-03-15

<140> 10579655
<141> 2010-10-25

<150> 60/523,881

<151> 2003-11-20

<150> PCT/US2004/038700

<151> 2004-11-18

<160> 415

<170> PatentIn version 3.5

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<213> Gymnea sylvestre

<400> 1

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<210> 2

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<213> Gymnea sylvestre

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<210> 3

<211> 7

<212> PRT

<213> Gymnea sylvestre

<400> 3

Asp Gly Ser Phe Ser Gly Phe

1 5

<210> 4

<211> 7

<212> PRT

<213> Gymnea sylvestre

<220>

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<223> Xaa is any amino acid

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Xaa Gly Ser Phe Ser Gly Xaa

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<210> 5

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<213> Artificial Sequence

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Arg Ser Ser His Cys Arg His Arg Asn Cys His Thr Ile Thr Arg Gly

1 5 10 15

Asn Met Arg Ile Glu Thr Pro Asn Asn Ile Arg Lys Asp Ala

20 25 30

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<223> Synthetic sequence, no source organism

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His Val Lys Arg Asp Ser Ser Pro Gly Ser Ile Asp Ala

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<210> 7

<211> 30

<212> PRT

<213> Artificial Sequence

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Asp Arg Pro His Arg Ser Arg Leu Ser Ile Asp Asp Asp Ala

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<210> 8

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

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1 5 10 15

Leu Ala Ile Asp Ser Tyr Trp Asp His Thr Leu Arg Asp Ala

20 25 30

<210> 9

<211> 34

<212> PRT

<213> Gymnea sylvestre

<400> 9

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val

1 5 10 15

Cys Cys Glu Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr

20 25 30

Cys Gly

<210> 10

<211> 34

<212> PRT

<213> Gymnea sylvestre

<400> 10

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1 5 10 15

Cys Cys Glu Pro Leu Glu Cys Phe Gln Met Gly His Gly Phe Lys Arg

20 25 30

Cys Gly

<210> 11

<211> 35

<212> PRT

<213> Gymnea sylvestre

<400> 11

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Ser Gln Ser Val Pro Met

1 5 10 15

Cys Cys Glu Pro Leu Glu Cys Lys Trp Phe Asn Glu Asn Tyr Gly Ile

20 25 30

Cys Gly Ser

35

<210> 12

<211> 34

<212> PRT

<213> Gymnea sylvestre

<400> 12

Ser Gly Cys Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Ile Asp Glu

1 5 10 15

Cys Cys Glu Pro Leu Glu Cys Thr Lys Gly Asp Leu Gly Phe Arg Lys

20 25 30

Cys Gly

<210> 13

<211> 35

<212> PRT

<213> Gymnea sylvestre

<400> 13

Gln Gln Cys Val Lys Lys Asp Glu Leu Cys Ile Pro Tyr Tyr Leu Asp

1 5 10 15

Cys Cys Glu Pro Leu Glu Cys Lys Lys Val Asn Trp Trp Asp His Lys

20 25 30

Cys Ile Gly

35

<210> 14

<211> 31

<212> PRT

<213> Gymnea sylvestre

<220>

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<223> Xaa is any amino acid

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1 5 10 15

Glu Pro Leu Glu Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys

20 25 30

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<211> 141

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<213> Gymnea sylvestre

<220>

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<222> (49)..(113)

<223> n is a, g, t or c

<400> 15

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nnsnnstgct gtgagcccct cgagtgcnns nnsnnsnnsn nsnnsnnsnn snnstgcggc 120

agcggcagtt ctgggtctag c 141

<210> 16

<211> 84

<212> DNA

<213> Gymnea sylvestre

<400> 16

taatacgact cactataggg acaattacta tttacaatta caatgcacca tcaccatcac 60

catagtggct caagctcagg atca 84

<210> 17

<211> 44

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<213> Gymnea sylvestre

<400> 17

ttttaaatag cggatgctac taggctagac ccagaactgc cgct 44

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<211> 10

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<220>
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20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Ala Asn Ala Pro
35 40 45

Lys Ala Ser Ala Ile
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<210> 20

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic sequence, no source organism

<400> 20

His His His His His His

1 5

<210> 21

<211> 6

<212> PRT

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<223> Synthetic sequence, no source organism

<400> 21

Asp Ala Asn Ala Pro Lys

1 5

<210> 22

<211> 127

<212> DNA

<213> Artificial sequence

<220>
<223> Synthetic sequence, no source organism

<220>

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<222> (28)..(105)

<223> S represents C or G, and N represents A, T, G or C

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snnsnnsnns nnsnnsnnsn nsnnsnnsnn snnsnnsnns nnsnnagatc tagcatgatg 120

atgatga 127

<210> 23

<211> 81

<212> DNA

<213> Gymnea sylvestre

<400> 23

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catcatcatc atgctagatc t 81

<210> 24

<211> 32

<212> DNA

<213> Gymnea sylvestre

<400> 24

aattaaatag cggatgcctt cggagcgtta gc 32

<210> 25

<211> 18

<212> DNA

<213> Bacteriophage M13

<400> 25

tgtaaaacga cggccagt 18

<210> 26

<211> 54

<212> PRT

<213> Gymnea sylvestre

<400> 26

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Gly Ser Val Gly His Cys Cys Glu

20 25 30

Pro Leu Glu Cys Leu Arg Arg Phe Leu Asn Leu Arg Trp Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser

50

<210> 27

<211> 54

<212> PRT

<213> Gymnema sylvestre

<400> 27

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ile Val Met Arg Ala Pro Cys Cys Glu

20 25 30

Pro Leu Glu Cys Leu Arg Arg Tyr Met Leu Lys His Met Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser

50

<210> 28

<211> 54

<212> PRT

<213> Gymnea sylvestre

<400> 28

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Lys Ala Phe Arg Tyr Ser Cys Cys Glu

20 25 30

Pro Leu Glu Cys Leu Arg Lys Trp Leu Lys Ala Arg Phe Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser

50

<210> 29

<211> 54

<212> PRT

<213> Gymnea sylvestre

<400> 29

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Leu Arg Ser Ser Ile Asp Cys Cys Glu

20 25 30

Pro Leu Glu Cys Leu Tyr Lys Trp Met Gln Arg Arg Leu Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser

50

<210> 30

<211> 54

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<213> Gymnea sylvestre

<400> 30

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Trp Pro Arg Arg His Lys Cys Cys Glu
20 25 30

Pro Leu Glu Cys Leu Leu Glu Met Leu Glu Arg Lys Arg Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser
50

<210> 31

<211> 53

<212> PRT

<213> Gymnea sylvestre

<400> 31

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Ser Met Ala Cys Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Lys Tyr His Gly Tyr Phe Trp Leu Cys Gly Ser Gly

35 40 45

Ser Ser Gly Ser Ser

50

<210> 32

<211> 54

<212> PRT

<213> Gymnea sylvestre

<400> 32

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Val Trp Phe Asp Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Thr Tyr Gln Ser Gly Tyr Tyr Trp Leu Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser

50

<210> 33

<211> 54

<212> PRT

<213> Gymnea sylvestre

<400> 33

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Pro Trp Tyr Trp Arg Cys Cys Glu

20 25 30

Pro Leu Glu Cys Val Tyr Thr Ser Gly Tyr Tyr Tyr Ser Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser

50

<210> 34

<211> 54

<212> PRT

<213> Gymnea sylvestre

<400> 34

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys
1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu
20 25 30

Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr Cys Gly Ser
35 40 45

Gly Ser Ser Gly Ser Ser
50

<210> 35

<211> 54

<212> PRT

<213> Gymnea sylvestre

<400> 35

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Val Phe Tyr Phe Pro Asn Cys Cys Glu

20 25 30

Pro Leu Glu Cys Arg Trp Val Asn Asp Asn Tyr Gly Trp Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser

50

<210> 36

<211> 53

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<213> Gymnea sylvestre

<400> 36

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Ser Met Ala Cys Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Lys Tyr His Gly Tyr Phe Trp Leu Cys Gly Ser Gly

35 40 45

Ser Ser Gly Ser Ser

50

<210> 37

<211> 54

<212> PRT

<213> Gymnea sylvestre

<400> 37

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Thr Thr Ala Ser Lys Ser Cys Cys Glu

20 25 30

Pro Leu Glu Cys Lys Trp Thr Asn Glu His Phe Gly Thr Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser

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<210> 38

<211> 54

<212> PRT

<213> Gymnea sylvestre

<400> 38

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ser Gln Ser Val Pro Met Cys Cys Glu

20 25 30

Pro Leu Glu Cys Lys Trp Phe Asn Glu Asn Tyr Gly Ile Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser

50

<210> 39

<211> 54

<212> PRT

<213> Gymnea sylvestre

<400> 39

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Ile Tyr Thr Ser Glu Leu Tyr Ala Thr Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser

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<210> 40

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<212> PRT

<213> Gymnea sylvestre

<400> 40

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Ala Arg Trp Asp Leu Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Leu Gly His Gly Leu Gly Tyr Ala Tyr Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser

50

<210> 41

<211> 53

<212> PRT

<213> Gymnea sylvestre

<400> 41

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Met Trp Ser Arg Glu Val Cys Cys Glu

20 25 30

Pro Leu Glu Cys Tyr Tyr Thr Gly Trp Tyr Trp Ala Cys Gly Ser Gly

35 40 45

Ser Ser Gly Ser Ser

50

<210> 42

<211> 54

<212> PRT

<213> Gymnea sylvestre

<400> 42

Met His His His His His His Ser Gly Ser Ser Ser Gly Ser Gly Cys

1 5 10 15

Val Lys Lys Asp Glu Leu Cys Glu Leu Ala Val Asp Glu Cys Cys Glu

20 25 30

Pro Leu Glu Cys Phe Gln Met Gly His Gly Phe Lys Arg Cys Gly Ser

35 40 45

Gly Ser Ser Gly Ser Ser

50

<210> 43

<211> 54